



Optimally adapted wood waste processing

For the Netherlands-based Baetsen Group, Vecoplan has designed and implemented a complete solution for the reliable processing of 200,000 tonnes of wood waste each year. Replacing a competitor module with a Vecoplan pre shredder has decreased energy consumption and increased performance considerably.

25 percent higher performance

The Netherlands-based Baetsen Group has specialised for more than 50 years in the areas of recycling, containers, crane hire, construction materials and plastics. In its wood recycling processes, the company reprocesses 200,000 tonnes of wood waste each year for material and thermal reuse.

Around 80 percent of the recyclables are used for the production of chipboard. Because the output material needs to meet strict quality standards, Baetsen attaches great importance to the use of durable and reliable technology.

In 2007, Vecoplan designed a system that efficiently shreds and separates large quantities of wood waste and reliably removes extraneous materials. Following its good experiences with Vecoplan, in 2012 Baetsen replaced its pre shredder from a competitor with the Vecoplan model VVZ 3100. The complete switchover to Vecoplan shredding technology increased throughput by 25 percent.



Input material

Wood waste

- Wood from tree cutting waste and demolition works
- Containing extraneous materials (stones, textiles) to differing extents



Output material

Homogeneous recyclables

- Homogeneous end product
- 80 percent for the production of chipboard
- Around 10 percent used as fuel (grain size <35 mm)



Excellent engineering

One strong partnership

The complete system was planned, implemented and upgraded by Vecoplan. Careful startup management ensured the smooth commissioning and performance optimisation of the production plant. Vecoplan was responsible for:

- Overall planning and project management
- Supply of the complete machine technology (apart from ferrous and non-ferrous separation)
- Assembly and commissioning
- Support in the approval procedures
- Subsequent switchover to the Vecoplan pre shredder

Completely Vecoplan

- Pre shredder VVZ 3100
- Two re shredders VAZ 2500
- Conveyor belts with widths of 1200, 1000 and 800 mm
- Loading scraper chain conveyor
- Scraper chain conveyor
- Large disk screen
- Two sorting conveyors
- Quantity distributor
- Vibration trough



Tried and tested cooperation



Vecoplan VVZ 3100

- Two HiTorc-Drives (each 155 kW) increase energy efficiency
- Quiet machine running and high throughput (60 to 65 tonnes/hour) thanks to the solid steel rotor
- Suitable for difficult material and material containing extraneous materials
- Homogeneous grain structure thanks to adapted tool geometry
- Reliable detection and processing of extraneous materials increases reliability

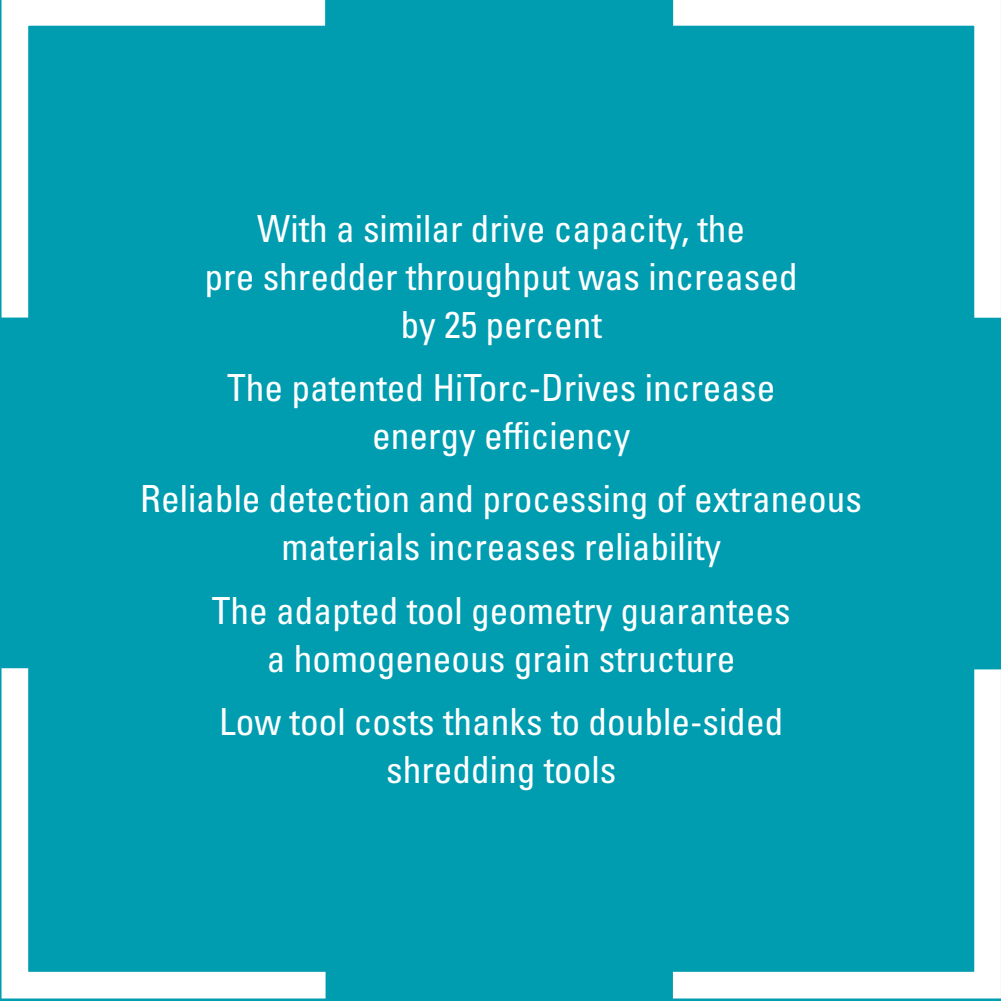
Large disk screen

- Ideal for separating overlengths of abrasive material (wood waste, domestic and commercial waste)
- Consists of a solid profile steel construction to hold the screen shafts, bearings and drive elements
- Reliable removal of extraneous materials
- Suitable for separating cuts of 50 mm to 300 mm



Increased customer benefits!

Following very good experiences with Vecoplan technology, Baetsen subsequently decided to replace its existing pre shredder from a competitor with the VVZ 3100, and therefore to switch its entire shredding technology to Vecoplan. The optimisation process was quick, problem-free and increased productivity without any delays.



With a similar drive capacity, the pre shredder throughput was increased by 25 percent

The patented HiTorc-Drives increase energy efficiency

Reliable detection and processing of extraneous materials increases reliability

The adapted tool geometry guarantees a homogeneous grain structure

Low tool costs thanks to double-sided shredding tools



„The chipboard industry needs material that meets strict quality criteria. With the complete solution from Vecoplan, we can reprocess large quantities of wood waste at an excellent quality – fast, reliably and energy efficiently.“

Peter Lamers, Directeur Recycling



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